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L2	3938132	select$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:13
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L4	33089	1 and L2 and L3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:24
L5	6601	"706"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:13
L6	6601	"706"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:13
L7	21834	"715"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:13
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L9	28214	L7 xor L8 L7 and L8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:13

L10	14716	L9 and @pd>="20011108"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:16
L11	21330	L9 and @ad<="20011108"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:17
L12	7958	L10 and L11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:13
L13	41311	script$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:13
L14	166094	tree$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:13
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L18	1	4 and L17	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:15
L19	2322	L15 and L13 and L14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:14

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L21	234	20 and 9	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:16
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L24	92	22 and 23	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:17
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L29	32	27 and 28	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:26

L30	27704	"707"/$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/07/11 09:54

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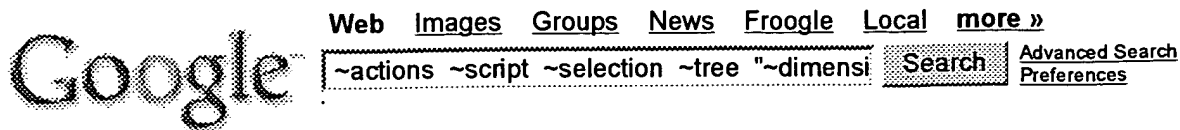
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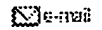Google Home - Advertising Programs - Business Solutions - About Google

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Kim Leng Poh; Fehling, M.R.; Horvitz, E.J.;
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Mann, R.D.;
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Kulhavy, R.;
Control Systems Magazine, IEEE
Volume 23, Issue 6, Dec. 2003 Page(s):40 - 49
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☐ 6. **Semiosis as development**
Salthe, S.N.;
Intelligent Control (ISIC), 1998. Held jointly with IEEE International Symposium on Con
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Huntsberger, T.; Aghazarian, H.; Baumgartner, E.; Schenker, P.S.;
Aerospace Conference Proceedings, 2000 IEEE
Volume 7, 18-25 March 2000 Page(s):679 - 686 vol.7

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Rothrock, L.; Park, S.; Barnes, M.J.; McDermott, P.; Hutchins, S.; Gillan, D.;
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1 Multimodal architectures and frameworks: A framework for rapid development of multimodal interfaces
Frans Flippo, Allen Krebs, Ivan Marsic
November 2003 **Proceedings of the 5th international conference on Multimodal interfaces**
Full text available: 📄 pdf(445.99 KB)   Additional Information: full citation, abstract, references, citings, index terms

Despite the availability of multimodal devices, there are very few commercial multimodal applications available. One reason for this may be the lack of a framework to support development of multimodal applications in reasonable time and with limited resources. This paper describes a multimodal framework enabling rapid development of applications using a variety of modalities and methods for ambiguity resolution, featuring a novel approach to multimodal fusion. An example application is studied t ...

Keywords: application frameworks, command and control, direct manipulation, multimodal fusion, multimodal interfaces

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1   Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2   Special issue: AI in engineering
D. Sriram, R. Joobbani
January 1985 **ACM SIGART Bulletin**, Issue 91

Full text available: 📄 pdf(8.79 MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

3   Computing curricula 2001
September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: 📄 pdf(613.63 KB)   Additional Information: full citation, references, citings, index terms
📄 html(2.78 KB)

4   Special issue on knowledge representation
Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: 📄 pdf(13.13 MB)   Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe

useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

5 Document Formatting Systems: Survey, Concepts, and Issues
Richard Furuta, Jeffrey Scofield, Alan Shaw
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: pdf(5.36 MB)   Additional Information: full citation, references, citings, index terms

6 Explanation-based learning: a survey of programs and perspectives
Thomas Ellman
June 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 2

Full text available: pdf(6.15 MB)   Additional Information: full citation, abstract, references, citings, index terms

Explanation-based learning (EBL) is a technique by which an intelligent system can learn by observing examples. EBL systems are characterized by the ability to create justified generalizations from single training instances. They are also distinguished by their reliance on background knowledge of the domain under study. Although EBL is usually viewed as a method for performing generalization, it can be viewed in other ways as well. In particular, EBL can be seen as a method that performs fo ...

7 The FINITE STRING Newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Full text available: pdf(6.15 MB)   Additional Information: full citation
Publisher Site

8 Concepts and paradigms of object-oriented programming
Peter Wegner
August 1990 **ACM SIGPLAN OOPS Messenger**, Volume 1 Issue 1

Full text available: pdf(5.52 MB)   Additional Information: full citation, abstract, citings, index terms

We address the following questions for object-oriented programming:*What is it?What are its goals?What are its origins?What are its paradigms?What are its design alternatives?What are its models of concurrency?What are its formal computational models?What comes after object-oriented programming?*Starting from software engineering goals, we examine the origins and paradigms of object-oriented programming, explore its language design alternativ ...

9 Dissertation Abstracts in Computer Graphics
January 1992 **ACM SIGGRAPH Computer Graphics**, Volume 26 Issue 1

Full text available: pdf(2.53 MB)   Additional Information: full citation

10 Interactive control of avatars animated with human motion data
Jehee Lee, Jinxiang Chai, Paul S. A. Reitsma, Jessica K. Hodgins, Nancy S. Pollard
July 2002 **ACM Transactions on Graphics (TOG) , Proceedings of the 29th annual conference on Computer graphics and interactive techniques,** Volume 21 Issue 3

Full text available: 📄 pdf(8.00 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Real-time control of three-dimensional avatars is an important problem in the context of computer games and virtual environments. Avatar animation and control is difficult, however, because a large repertoire of avatar behaviors must be made available, and the user must be able to select from this set of behaviors, possibly with a low-dimensional input device. One appealing approach to obtaining a rich set of avatar behaviors is to collect an extended, unlabeled sequence of motion data appropria ...

Keywords: avatars, human motion, interactive control, motion capture, virtual environments

11 DAIDA: an environment for evolving information systems

M. Jarke, J. Mylopoulos, J. W. Schmidt, Y. Vassiliou
January 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 1

Full text available: 📄 pdf(3.63 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

We present a framework for the development of information systems based on the premise that the knowledge that influences the development process needs to somehow be captured, represented, and managed if the development process is to be rationalized. Experiences with a prototype environment developed in ESPRIT project DAIDA demonstrate the approach. The project has implemented an environment based on state-of-the-art languages for requirements modeling, design and implementation of informat ...

Keywords: knowledge engineering, mapping assistant, multi-level specification, repository, software information system, software process model

12 Analysis of navigation behaviour in web sites integrating multiple information systems

Bettina Berendt, Myra Spiliopoulou
March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Full text available: 📄 pdf(281.14 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>citings</u>, <u>index terms</u>

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining cross-linked data from many sources. For the analysis of visitor naviga ...

Keywords: Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

13 Types and persistence in database programming languages

Malcolm P. Atkinson, O. Peter Buneman
June 1987 **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Full text available: 📄 pdf(7.91 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Traditionally, the interface between a programming language and a database has either been through a set of relatively low-level subroutine calls, or it has required some form of embedding of one language in another. Recently, the necessity of integrating database and programming language techniques has received some long-overdue recognition. In

response, a number of attempts have been made to construct programming languages with completely integrated database management systems. These lang ...

14 Three-dimensional object recognition
Paul J. Besl, Ramesh C. Jain
March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1

Full text available: pdf(7.76 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

15 Technical reports
SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available: pdf(5.28 MB)   Additional Information: full citation

16 Papers: On the move: From desktop to phonetop: a UI for web interaction on very small devices
Jonathan Trevor, David M. Hilbert, Bill N. Schilit, Tzu Khiau Koh
November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology**

Full text available: pdf(1.34 MB)   Additional Information: full citation, abstract, references, citings, index terms

While it is generally accepted that new Internet terminals should leverage the installed base of Web content and services, the differences between desktop computers and very small devices makes this challenging. Indeed, the browser interaction model has evolved on desktop computers having a unique combination of user interface (large display, keyboard, pointing device), hardware, and networking capabilities. In contrast, Internet enabled cell phones, typically with 3-10 lines of text, sacrifice ...

Keywords: PDA, Web browsing, transcoding, transducing, web phone, wireless web

17 Human-computer interface development: concepts and systems for its management
H. Rex Hartson, Deborah Hix
March 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 1

Full text available: pdf(7.97 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. *Dialogue independence* is th ...

18 Conference abstracts
January 1977 **Proceedings of the 5th annual ACM computer science conference**

Full text available: pdf(3.14 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

19 <u>Interactive Editing Systems: Part II</u>
Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available: pdf(9.17 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

20 <u>Information visualization using 3D interactive animation</u>
George G. Robertson, Stuart K. Card, Jack D. Mackinlay
April 1993 **Communications of the ACM**, Volume 36 Issue 4

Full text available: pdf(7.01 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

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1 Data Structures for Range Searching   ▩
Jon Louis Bentley, Jerome H. Friedman
December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4

Full text available: 📄 pdf(1.08 MB)   ′ Additional Information: full citation, references, citings, index terms

2 Slicing tree is a complete floorplan representation   ▩
M. Lai, D. Wong
March 2001 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: 📄 pdf(117.87 KB)   Additional Information: full citation, references, citings, index terms

3 Three-dimensional object recognition   ▩
Paul J. Besl, Ramesh C. Jain
March 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 1

Full text available: 📄 pdf(7.76 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

A general-purpose computer vision system must be capable of recognizing three-dimensional (3-D) objects. This paper proposes a precise definition of the 3-D object recognition problem, discusses basic concepts associated with this problem, and reviews the relevant literature. Because range images (or depth maps) are often used as sensor input instead of intensity images, techniques for obtaining, processing, and characterizing range data are also surveyed.

4 GRAPHOS: A macro directed system for two-dimensional syntax translation   ▩
George L. Lazik
October 1972 **ACM SIGPLAN Notices , Proceedings of the symposium on Two-dimensional man-machine communication**, Volume 7 Issue 10

Full text available: 📄 pdf(1.03 MB)   Additional Information: full citation, abstract, citings, index terms

A system is presented which translates two-dimensional syntax into a one-dimensional form. The concept of a macro is extended so as to be applicable to these two-dimensional forms. The translation process is controlled by a set of user-defined graphical-macros or "graphos". These graphos are interactively defined on a graphics terminal and placed in a set of master tables. Two-dimensional expressions are then constructed on the graphics

terminal. The system translates these expr ...

5 Flocks, herds and schools: A distributed behavioral model

Craig W. Reynolds

August 1987 **ACM SIGGRAPH Computer Graphics , Proceedings of the 14th annual conference on Computer graphics and interactive techniques**, Volume 21 Issue 4

Full text available: pdf(1.46 MB)   Additional Information: full citation, abstract, references, citings, index terms

The aggregate motion of a flock of birds, a herd of land animals, or a school of fish is a beautiful and familiar part of the natural world. But this type of complex motion is rarely seen in computer animation. This paper explores an approach based on simulation as an alternative to scripting the paths of each bird individually. The simulated flock is an elaboration of a particle systems, with the simulated birds being the particles. The aggregate motion of the simulated flock is created by a di ...

6 A review of recent work on multi-attribute access methods

David Lomet

September 1992 **ACM SIGMOD Record**, Volume 21 Issue 3

Full text available: pdf(659.35 KB)   Additional Information: full citation, abstract, citings, index terms

Most database systems provide database designers with single attribute indexing capability via some form of B+tree. Multi-attribute search structures are rare, and are mostly found in systems specialized to some more narrow application area, e.g. geographic databases. The reason is that no multi-attirbute search structure has been demonstrated, with high confidence. Multi-attribute search is an active area of research. This paper reviews the state of this field and some of the difficult pro ...

7 Integrating tools and tasks: Understanding sequence and reply relationships within email conversations: a mixed-model visualization

Gina Danielle Venolia, Carman Neustaedter

April 2003 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(803.02 KB)   Additional Information: full citation, abstract, references, citings, index terms

It has been proposed that email clients could be improved if they presented messages grouped into conversations. An email conversation is the tree of related messages that arises from the use of the reply operation. We propose two models of conversation. The first model characterizes a conversation as a chronological sequence of messages; the second as a tree based on the reply relationship. We show how existing email clients and prior research projects implicitly support each model to a greater ...

8 ADL: An algorithmic design language for integrated circuit synthesis

W. H. Evans, J. C. Ballegeer, Nguyen H. Duyet

June 1984 **Proceedings of the 21st conference on Design automation**

Full text available: pdf(659.93 KB)   Additional Information: full citation, abstract, references, citings, index terms

The Algorithmic Design Language (ADL), provides a means to procedurally describe the functional, circuit, schematic and mask aspects of integrated circuits. The constructs of this language have been coded in the C language and are intended for application to IC design. C programs that incorporate ADL routines are executed to build a data base from which CIF files, input files to circuit simulation programs or a textual representation of ADL's own highly structured data base can be generated ...

9 <u>Quintary trees: a file structure for multidimensional datbase sytems</u>
D. T. Lee, C. K. Wong
September 1980 **ACM Transactions on Database Systems (TODS)**, Volume 5 Issue 3
Full text available: <u>pdf(1.01 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: database system, exact match queries, file maintenance, information retrieval, key, multidimensional space, queries, range search, search

10 <u>Differences between versions of UML diagrams</u>
Dirk Ohst, Michael Welle, Udo Kelter
September 2003 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 9th European software engineering conference held jointly with 11th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 28 Issue 5
Full text available: <u>pdf(202.32 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

This paper addresses the problem of how to detect and visualise differences between versions of UML documents such as class or object diagrams. Our basic approach for showing the differences between two documents is to use a unified document which contains the common and specific parts of both base documents; the specific parts are highlighted. The main problems are (a) how to abstract from modifications done to the layout and other (document type-specific) details which are considered irrelevan ...

Keywords: UML diagrams, configuration, design transaction, differences, fine-grained data model, software engineering environments, versions

11 <u>Event matching in symmetric subscription systems</u>
Walid Rjaibi, Klaus R. Dittrich, Dieter Jaepel
September 2002 **Proceedings of the 2002 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: <u>pdf(192.61 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Publish/subscribe and database systems researchers have recognized the importance of the event matching algorithm to the performance and scalability of a content-based subscription system. A number of interesting event matching techniques as well as DBMS solutions have been proposed in recent research work in the area. Content-based subscription systems allow information consumers to define filtering criteria when they register their interest in being notified of events that match their requirem ...

12 <u>A hierarchical data structure for multidimensional digital images</u>
Mann-May Yau, Sargur N. Srihari
July 1983 **Communications of the ACM**, Volume 26 Issue 7
Full text available: <u>pdf(1.10 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

A tree data structure for representing multidimensional digital binary images is described. The method is based on recursive subdivision of the d-dimensional space into 2d hyperoctants. An algorithm for constructing the tree of a d-dimensional binary image from the trees of its (d - 1)-dimensional cross sections is given. The computational advantages of the data structure and the algorithm are demonstrated both theoretically and in application to a three-dimens ...

Keywords: computed tomography, hyperoctree, multidimensional arrays, octree, quadtree, serial section image processing

13 An environment for developing adaptive, multi-device user interfaces

John Grundy, Biao Yang

February 2003 **Proceedings of the Fourth Australian user interface conference on User interfaces 2003 - Volume 18 CRPITS '03**

Full text available: pdf(784.56 KB)   Additional Information: full citation, abstract, references, index terms

There is a growing demand for the development of multi-device, adaptive user interfaces - interfaces that will run on and adapt to the characteristics of multiple display devices and networks as well as multiple users and user tasks. We describe a design and implementation environment for the development of such interfaces. This tool allows developers to specify their desired interfaces using an abstract set of screen element and layout constructs. It then generates a Java Server Page implementa ...

Keywords: adaptive user interfaces, mobile user interfaces, multi-device user interfaces, thin-client user interfaces, user interface design tools

14 Parsing of Graph-Representable Pictures

Alan C. Shaw

July 1970 **Journal of the ACM (JACM)**, Volume 17 Issue 3

Full text available: pdf(1.65 MB)   Additional Information: full citation, abstract, references, citings, index terms

A syntax-directed picture analysis system based on a formal picture description scheme is described. The system accepts a description of a set of pictures in terms of a grammar generating strings in a picture description language; the grammar is explicitly used to direct the analysis or parse, and to control the calls on pattern classification routines for primitive picture components. Pictures are represented by directed graphs with labeled edges, where the edges denote elementary picture ...

15 A procedural approach to authoring solid models

Barbara Cutler, Julie Dorsey, Leonard McMillan, Matthias Müller, Robert Jagnow

July 2002 **ACM Transactions on Graphics (TOG) , Proceedings of the 29th annual conference on Computer graphics and interactive techniques**, Volume 21 Issue 3

Full text available: pdf(11.99 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present a procedural approach to authoring layered, solid models. Using a simple scripting language, we define the internal structure of a volume from one or more input meshes. Sculpting and simulation operators are applied within the context of the language to shape and modify the model. Our framework treats simulation as a modeling operator rather than simply as a tool for animation, thereby suggesting a new paradigm for modeling as well as a new level of abstraction for interacting with si ...

Keywords: signed-distance function, tetrahedral representation, volumetric modeling

16 Polling: a new randomized sampling technique for computational geometry

J. H. Reif, S. Sen

February 1989 **Proceedings of the twenty-first annual ACM symposium on Theory of computing**

Full text available: pdf(1.39 MB)   Additional Information: full citation, abstract, references, citings, index

terms

We introduce a new randomized sampling technique, called Polling which has applications to deriving efficient parallel algorithms. As an example of its use in computational geometry, we present an optimal parallel randomized algorithm for intersection of half-spaces in three dimensions. Because of well-known reductions, our methods also yield equally efficient algorithms for fundamental problems like the convex hull in three dimensions, Voronoi diagram of point sites on a plane and Euclidea ...

17 Multimedia and visualization (MV): MAMView: a visual tool for exploring and understanding metric access methods
Fabio J. T. Chino, Marcos R. Vieira, Agma J. M. Traina, Caetano Traina
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing**

Full text available: pdf(892.82 KB)   Additional Information: full citation, abstract, references, index terms

The MAMView framework is a data exploration tool that allows developers and users of Metric Access Methods (MAMs) to explore and share dynamic and interactive 3D presentations of a MAM, making the understanding of those structures easier. It is able to create visual representations of metric datasets, including high-dimensional and non-dimensional information. This is achieved by using an extension of the FastMap algorithm. This framework was developed as a practical tool that has been successfu ...

Keywords: data visualization, metric access methods

18 Tree fitting: an algebraic approach using profile distances
Richard Desper, Martin Vingron
April 2000 **Proceedings of the fourth annual international conference on Computational molecular biology**
Full text available: pdf(659.17 KB)   Additional Information: full citation, abstract, references

Distance methods play a central role in the field of phylogeny reconstruction, providing fast, efficient algorithms which yield reliable trees. The taxonomy problem is; given a set of DNA or amino acid sequences from several species, accurately reconstruct a phylogenetic tree representing their evolutionary history. Distance methods approach this problem by inferring a distance matrix of species-to-species evolutionary distances, and finding a tree which approximates the distance matrix. Our ...

19 Summary-based routing for content-based event distribution networks
Yi-Min Wang, Lili Qiu, Chad Verbowski, Dimitris Achlioptas, Gautam Das, Paul Larson
October 2004 **ACM SIGCOMM Computer Communication Review**, Volume 34 Issue 5

Full text available: pdf(2.82 MB)   Additional Information: full citation, abstract, references

Providing scalable distributed Web-based eventing services has been an important research topic. It is desirable to have an effective mechanism for the servers to summarize their filters for in-network preprocessing in order to optimize system performance. In this paper, we propose a summary-based routing mechanism and introduce the notion of imprecise summaries to provide a trade-off between routing overhead and event traffic. Our system uses similarity-based filter clustering to reduce overall ...

20 Mechanical pragmatics: a time-motion study of a miniature mechanical linguistic system: a set of examples presented to ASA X3-4 subcommittee
Saul Gorn
December 1962 **Communications of the ACM**, Volume 5 Issue 12

Full text available: pdf(1.61 MB)   Additional Information: full citation, references, citings

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